(19) Europäisches Patentamt
Europ an Patent Office
Offic uropéen des brevets

(11) Publication number: **0 423 705 A3**

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **90119803.6**

(22) Date of filing: **16.10.90**

(51) Int. Cl.[5]: **C07B 55/00**, C07C 323/32, C07C 317/32, C07C 323/39, C07C 215/34, C07C 213/10, C07D 263/06

(30) Priority: **20.10.89 IT 2207589**

(43) Date of publication of application: **24.04.91 Bulletin 91/17**

(84) Designated Contracting States: **AT BE CH DE DK ES FR GB GR IT LI LU NL SE**

(88) Date of deferred publication of the search report: **06.05.92 Bulletin 92/19**

(71) Applicant: **ZAMBON GROUP S.p.A.**
Via della Chimica, 9
I-36100 Vicenza(IT)

(72) Inventor: **Villa, Marco**
Piazza Aspromonte, 35
I-20131 Milano(IT)
Inventor: **Giordano, Claudio**
Via Ambrosini, 1
I-20052 Monza (MI)(IT)
Inventor: **Cavicchioli, Silvia**
Via delle Quattro Marie, 32/4
I-20060 Bellinzago Lombardo (MI)(IT)
Inventor: **Levi, Silvio**
Via Bocconi, 9
I-20136 Milano(IT)

(54) **Process for the stereochemical inversion of (2S,3S)-2-amino-3-phenyl-1,3-propanediols into their (2R,3R) enantiomers.**

(57) A four step process for transforming (2S,3S)-2-amino-3-phenyl-1,3-propanediols into their (2R,3R)-enantiomers is described. The final compounds are useful intermediates for the synthesis of antibiotics like Chloramphenicol, Thiamphenicol and Florfenicol. The starting products generally are discard products in the synthesis of said antibiotics.

EP 0 423 705 A3

European Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 11 9803

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
D,A	TETRAHEDRON LETTERS, vol. 29, no. 43, 1988, OXFORD GB pages 5561 - 5564; C. GIORDANO ET AL.: 'New Strategy for Racemization of 2-Amino-1,3-Propanediols, Key Intermediates for the Synthesis of Antibiotic Drugs' * the whole document *	1-20	C07B55/00 C07C323/32 C07C317/32 C07C323/39 C07C215/34 C07C213/10 C07D263/06
D,A	EP-A-0 130 633 (ZAMBON S.P.A.) * the whole document *	1-20	
D,A	EP-A-0 014 437 (SCHERING CORPORATION) * claims; examples 1,4,9,12-14 *	1-20	
A	US-A-2 742 500 (WALTER A. GREGORY AND MARVIN PAULSHOCK) * the whole document *	1-20	

TECHNICAL FIELDS SEARCHED (Int. Cl.5)

C07C
C07D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	12 MARCH 1992	ZERVAS B.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P0401)